²³⁸U(**p**,**X**): $\Delta < \mathbf{r}^2 >$ **2013Se03**

History				
Туре	Author	Citation	Literature Cutoff Date	
Full Evaluation	Huang Xiaolong and Kang Mengxiao	NDS 121, 395 (2014)	1-Mar-2014	

2013SE03: Beam of ¹⁹⁵Po produced at the CERN ISOLDE facility by impinging 1.4 GeV protons on a 50 g/cm² thick, UC_x target. Reaction products diffused out and transferred to the RILIS. Deduced nuclear charge radius from the measured isotope shifts.

¹⁹⁵Po Levels

Systematic uncertainties in $\Delta < r^2 >$ arising from electronic factor and mass-shift calculations are not included. Their magnitude is similar to the quoted experimental uncertainty.

E(level) [†]	$J^{\pi \dagger}$	Comments
0.0	(3/2-)	$\Delta < r^2 > (^{195}\text{Po}, ^{196}\text{Po}) = -0.29 \text{ GHz } 15.$
		$\Delta < r^2 > (^{195}\text{Po}, ^{210}\text{Po}) = -0.604 \text{ fm}^2 13.$
		$<\beta_2^2 > \frac{1}{2} = 0.18.$
≈230	$(13/2^+)$	$\Delta < \tilde{r}^2 > ({}^{195}\text{Po}, {}^{196}\text{Po}) = -0.61 \text{ GHz } 15.$
		$\Delta < r^2 > (^{195}\text{Po}, ^{210}\text{Po}) = -0.575 \text{ fm}^2 13.$
		$<\beta_2^2>^{1/2}=0.18.$

[†] From Adopted Levels.